

[illegible]

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 155026

Wednesday, January 11, 2017 12:51:27 PM

155026

Page 2

Item ID: 646.4001

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/6/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00				DAS 28 9-89	DAS 27 9-89	FEB 21 2017	
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: <u> </u>								
140	QC21- Final Inspection - Work Order Release	0.00						DAS 21 9-89	FEB 21 2017
140									
QC	Memo	0.02							
Quality Control								DAS 21 9-89	FEB 21 2017

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 1

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
600.0129 *600 0129* VHB TAPE 75935A651		Purchased	No			100	f	200.0000	8	8		JAN 23 2017	DAS 27 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK096		200							
				m135867		200							
600.0990 *600 0990* Magnabond 6398 Part A Size 112 ml		Purchased	No			100	Each	18.0000	1	1		JAN 23 2017	DAS 27 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				PKG		18							
				M135600		5							
				M136142		12							
				M134249		1							
600.0991 *600 0991* Magnabond 6398 Part B Size 112 ml		Purchased	No			100	Each	17.0000	1	1		JAN 23 2017	DAS 27 6 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				PKG		17							
				m135600		5							
				m136142		12							

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
						QC / QA Coordinator Approval			

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	Pressure/Forced ☐	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	☐ Offset/Setup	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	☐ Supplier	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	☐ Training	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	☐ Use for Testing	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	☐ Poor Information	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	☐ Rushing	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	☐ Product Improvement	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	☐ Process Improvement	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 2

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

600.1012 Purchased No

100 Each 12.0000 1 1

600 1012

Sealant PR1425B2 (#654 sem)

**

Location

Loc Qty

Loc Code

cck017

12

m136192

4

m136554

8

JAN 23 2017

DAS 27
6 9-89

600.1013 Purchased No

100 Each 90.0000 5 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

Location

Loc Qty

Loc Code

CCK096

90

m136345

90

JAN 23 2017

DAS 27
6 9-89

646.2910 Manufactured No

100 Each 9.0000 1 1

646 2910

Deflector

**

Location

Loc Qty

Loc Code

CCK050

9

150611

3

151647

6

JAN 23 2017

DAS 27
6 9-89

646.3001 Manufactured No

100 Each 7.0000 1 1

646 3001

Lower Cable Cutter Assembly

**

Location

Loc Qty

Loc Code

cck018

4

151016

2

151686

2

ST018

3

151685

3

JAN 23 2017

DAS 27
6 9-89

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 3

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

646.3110
646 3110
Channel
DAS 28
9-89

Manufactured No

100 Each 2.0000 1 1

**

JAN 23 2017

DAS 27
9-89
DAS 6
9-89

Location

Loc Qty

Loc Code

cck020

2

141015

2

15235

646.3210
646 3210
Support
DAS 28
9-89

Manufactured No

100 Each 11.0000 1 1

**

JAN 23 2017

DAS 27
9-89
DAS 6
9-89

Location

Loc Qty

Loc Code

cck020

11

150684

4

151669

7

646.3301
646 3301
Upper Cutter Assembly
DAS 28
9-89

Manufactured No

100 Each 6.0000 1 1

**

JAN 23 2017

DAS 27
9-89
DAS 6
9-89

Location

Loc Qty

Loc Code

cck018

6

149304

2

151655

4

646.3510
646 3510
Strut
DAS 28
9-89

Manufactured No

100 Each 14.0000 1 1

**

JAN 23 2017

DAS 27
9-89
DAS 6
9-89

Location

Loc Qty

Loc Code

cc104

4

140979

4

CCK108A

10

152366

10

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
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				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 4

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

646.3511
646 3511

Strut

Manufactured No

100 Each 4.0000 1 1

**

JAN 23 2017

DAS 27
6 9-89

Location

Loc Qty

Loc Code

cck104

4

141499

4

646.3610
646 3610

Filler

Manufactured No

100 Each 12.0000 1 1

**

JAN 23 2017

DAS 27
6 9-89

Location

Loc Qty

Loc Code

cck104

12

150485

4

151687

8

646.3710
646 3710

Doubler

Manufactured No

100 Each 4.0000 1 1

**

JAN 23 2017

DAS 27
6 9-89

Location

Loc Qty

Loc Code

CCK002

4

140753

4

646.3711
646 3711

Clip

Manufactured No

100 Each 13.0000 1 1

**

JAN 23 2017

DAS 27
3 89

Location

Loc Qty

Loc Code

cck104

13

150685

2

151670

11

DAS 28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :			MRB (QSI042) Approval
Description Work Order Deviation		Disposition			Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 5

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

100

Each

9.0000

1 1

646 3712

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

9

151018

9

**

JAN 23 2017

DAS
6
9-89

DAS
27
9-89

646.3713

Manufactured No

100

Each

15.0000

1 1

646 3713

Gusset

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

15

140084

3

151646

12

**

JAN 23 2017

DAS
6
9-89

DAS
27
9-89

646.3714

Manufactured No

100

Each

15.0000

1 1

646 3714

Gusset

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

15

150125

3

151643

12

**

JAN 23 2017

DAS
6
9-89

DAS
27
9-89

646.3715

Manufactured No

100

Each

12.0000

2 2

646 3715

Strut Doubler

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

12

151668

12

**

JAN 23 2017

DAS
6
9-89

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval 	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 6

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

646.3716
646 3716
Gauge Bracket

DAS
28
9-89

Manufactured No

100 Each

15.0000

1 1

**

JAN 23 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

15

140845

15

646.3717
646 3717
Doubler

DAS
28
9-89

Manufactured No

100 Each

12.0000

1 1

**

JAN 23 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

12

142634

2

151423

10

646.3718
646 3718
Custom Washer

DAS
28
9-89

Manufactured No

100 Each

11.0000

2 2

**

JAN 23 2017

DAS
276
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

11

151498

11

646.3719
646 3719
Doubler

DAS
28
9-89

Manufactured No

100 Each

14.0000

2 2

**

JAN 23 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

14

150656

4

151663

10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Wednesday, January 11, 2017 12:51:26 PM

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval 	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY					
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong			
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions			
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance			
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect			
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing			
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved			
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing			
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Misabeled	☐ Finish			
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread			
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence			
Past Expiry Date ☐	☐ Manufacturing Process	☐ OTHER :						
Misidentified ☐	☐ Past Due							

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 8

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

646.3910

Manufactured No

100

Each

37.0000

4 4

646 3910

Shim

**

JAN 23 2017

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK106

17

150627

17

CCK108A

20

151458

20

646.3911

Manufactured No

100

Each

23.0000

1 1

646 3911

Shim

**

JAN 23 2017

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

cck104

16

126229

16

CCK106

7

126059

7

646.3912

Manufactured No

100

Each

34.0000

4 4

646 3912

Shim

**

JAN 23 2017

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK106

14

150715

14

CCK108A

20

151683

20

646.3913

Manufactured No

100

Each

63.0000

1 1

646 3913

Shim

**

JAN 23 2017

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK106

63

126060

63

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 9

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

646.9410

Manufactured No

100 Each

72.0000

1 1

JAN 23 2017

646 9410

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

cck011

72

140671

72

647.0112

Manufactured No

100 Each

11.0000

2 2

JAN 23 2017

647 0112

Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK108A

11

153461

11

647.7703

Manufactured No

100 Each

0.0000

2 2

JAN 23 2017

647 7703

Strut Assembly

DAS
28
9-89

Location

Loc Qty

Loc Code

cck126

12

150359

12

AN3-11A

Purchased No

100 Each

598.0000

10 10

JAN 23 2017

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

456

153855

356

m136192

100

ST349

142

153855

142

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

Page 9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 10

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-12A Purchased No

100 Each 373.0000 2 2

AN3-12A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

206

153854

206

ST349

167

m135603

167

AN3-13A Purchased No

100 Each 90.0000 1 1

AN3-13A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

16

m127070

16

ST349

74

153845

74

AN316C4R Purchased No

100 Each 65.0000 2 2

AN316C4R

Nut, Jam

DAS
28
9-89

Location

Loc Qty

Loc Code

ST331

65

153850

50

m136192

15

AN3-3A Purchased No

100 Each 156.0000 4 4

AN3-3A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

156

m135672

8

m135865

50

m136199

98

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 11

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No 100 Each 143.0000 10 10 JAN 23 2017 **DAS 28 9-89** **DAS 27 9-89**

AN3-4A

Bolt

AN3-5A Purchased No 100 Each 330.0000 2 2 JAN 23 2017 **DAS 28 9-89** **DAS 27 9-89**

AN3-5A

Bolt

AN3-6A Purchased No 100 Each 269.0000 2 2 JAN 23 2017 **DAS 28 9-89** **DAS 27 9-89**

AN3-6A

Bolt

AN44-5A Purchased No 100 Each 29.0000 2 2 JAN 23 2017 **DAS 28 9-89** **DAS 27 9-89**

AN44-5A

Eyebolt

Location Loc Qty Loc Code

ST350 143
m135704 143

Location Loc Qty Loc Code

over003 300
m136182 300
ST350 30
m135058 30

Location Loc Qty Loc Code

over003 188
153844 188
ST349 81
M134955 81

Location Loc Qty Loc Code

ST339 29
153853 5
m135774 12
m136047 12

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

Page 11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By 	
								Lead hand / Supervisor Approval Verification 	
								QC / QA Coordinator Approval 	

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	Pressure/Forced ☐	☐ Temperature/Cure	Power Loss/Surge ☐	☐ Positioned Wrong		
Design ☐	☐ Operator	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	☐ Offset/Setup	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	☐ Supplier	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	☐ Training	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	☐ Use for Testing	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	☐ Poor Information	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	☐ Rushing	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	☐ Product Improvement	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	☐ Process Improvement	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER :					
Misidentified ☐	☐ Past Due						

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

AN4C7A Purchased No

100 Each 104.0000 2 2

AN4C7A

BOLT

**

DAS
6
9-89

JAN 23 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

OVER002

54

m136295

54

ST345

50

m135864

50

AN665-34R Purchased No

100 Each 57.0000 2 2

AN665-34R

Clevis

**

DAS
6
9-89

JAN 23 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

over008

47

153852

47

ST330

10

M136182

10

CCR264SS3-02 Purchased No

100 Each 244.0000 36 36

CCR264SS3-02

Cherry Rivet

**

DAS
6
9-89

JAN 23 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

244

M135603

19

M136047

225

CR3213-5-3 Purchased No

100 Each 186.0000 14 14

CR3213-5-3

Cherry Rivet

**

DAS
6
9-89

JAN 23 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

m136537

100

ST319

86

m135865

86

DAS
28
9-89

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 13

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7 Purchased

No

100

Each

1,528.000

2 2

MS20426AD5-7

RIVET

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

703

153848

703

ST311

825

M133922

825

MS20470AD5-5.5 Purchased

No

100

Each

790.0000

8 8

MS20470AD5-5.5

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

790

m134063

790

MS20470AD5-6 Purchased

No

100

Each

680.0000

8 8

MS20470AD5-6

RIVET

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

680

124089

680

MS20470AD5-7 Purchased

No

100

Each

401.0000

3 3

MS20470AD5-7

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

401

123425

401

MS21042-08 MS21042L08 Purchased

No

100

Each

0.0000

2 2

MS21042-08

USE MS21042L08

DAS
28
9-89

Wednesday, January 11, 2017 12:51:26 PM

Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

100 Each

0.0000

2 2

MS21042-3

Nut

MS21042L3

Purchased No

100 Each

2,168.000

61 61

MS21042L3

Nut

Location

Loc Qty

Loc Code

FP001 100

m135945 100

GA 162

m134360 108

m135135 54

OVER007 500

M136554 500

ST303 1406

M136044 306

M136192 600

M136406 500

DAS
28
9-89

**

136192

DAS
6
9-89

JAN 23 2017

DAS
27
9-89

**

DAS
6
9-89

JAN 23 2017

DAS
27
9-89

136192

61

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Wednesday, January 11, 2017 12:51:26 PM

Page 15

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

100

Each

2,413.000

2

2

MS21042L4

Nut

**

JAN 23 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

FP001

18

m133363

18

GA

192

m135058

192

OVER007

1000

m136182

500

m136450

500

ST303

1203

m135864

24

m135979

179

m136295

1000

MS21047-3

Purchased

No

100

Each

172.0000

18

18

MS21047-3

Nut Plate

**

JAN 23 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

ST301

172

m136047

82

m136442

90

MS24693-C278

Purchased

No

100

Each

115.0000

5

5

MS24693-C278

Screw

**

JAN 23 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

over006

100

m136554

100

ST286

15

m135135

15

DAS 28 9-89

DAS 6 9-89

Wednesday, January 11, 2017 12:51:27 PM

Shop Packet Print

Page 15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

Picklist Print

Wednesday, January 11, 2017 12:51:27 PM

Page 16

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

MS24694-S51

Purchased

No

100

Each

199.0000

5 5

MS24694-S51

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

199

m135442

199

100

Each

281.0000

2 2

MS24694-S54

Purchased

No

MS24694-S54

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

281

153846

157

m135948

124

100

Each

347.0000

3 3

MS24694-S55

Purchased

No

MS24694-S55

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

247

153847

247

ST283

100

m136042

100

100

Each

402.0000

2 2

MS27039-08-13

Purchased

No

MS27039-08-13

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

325

153849

325

ST278

77

m136199

77

**

**

**

**

JAN 20 2017

JAN 20 2017

JAN 20 2017

JAN 20 2017

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

Wednesday, January 11, 2017 12:51:27 PM

Shop Packet Print

Page 16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Wednesday, January 11, 2017 12:51:27 PM

Page 17

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

100

Each

295.0000

2

2

JAN 20 2017

DAS
6
9-89

DAS
27
9-89

MS27039-1-10

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

17

m129541

17

ST280

278

m135774

278

MS27039-1-12

Purchased

No

100

Each

142.0000

6

6

JAN 20 2017

DAS
6
9-89

DAS
27
9-89

MS27039-1-12

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

100

m136537

100

ST280

42

m135566

42

MS27039-1-16

Purchased

No

100

Each

192.0000

24

24

JAN 20 2017

DAS
6
9-89

DAS
27
9-89

MS27039-1-16

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

100

m136537

100

ST280

92

m135865

42

m136301

50

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :			MRB (QSI042) Approval
Description Work Order Deviation		Disposition			Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Picklist Print

Wednesday, January 11, 2017 12:51:27 PM

Page 18

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

100

Each

182.0000

22

22

MS27039-1-19

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

80

m134134

80

ST280

102

m136182

102

MS27039-1-20

Purchased

No

100

Each

144.0000

2

2

MS27039-1-20

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

144

124326

44

m136554

100

MS27039-1-21

Purchased

No

100

Each

211.0000

4

4

MS27039-1-21

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

211

m127904

211

NAS1149F0332P

Purchased

No

100

Each

2,684.000

144

144

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

343

m133709

343

ST260a

1800

m136442

1800

ST262

541

m135948

541

Wednesday, January 11, 2017 12:51:27 PM

Shop Packet Print

Page 18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Wednesday, January 11, 2017 12:51:27 PM

Work Order ID: 155026

155026

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/30/2017

Required Date: 2/6/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0363P Purchased No

100 Each 136.0000 2 2

NAS1149F0363P

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

136

124555

136

100 Each 1,645.000 4 4

NAS1149F0432P Purchased No

NAS1149F0432P

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M136442

1000

ST262

645

M135704

645

100 Each 1,543.000 4 4

NAS1149FN832P Purchased No

NAS1149FN832P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

232

M135058

232

ST263

1311

M136182

1311

DAS
6
9-89

JAN 20 2017

DAS
6
9-89

JAN 20 2017

DAS
6
9-89

JAN 20 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER : _____							
Misidentified ☐	☐	Past Due								

REFERENCE ONLY

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WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
2. INSTALL F/N 14 WITH F/N 52 & 53.
3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.
4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
5. REUSE FASTENERS FROM F/N 1.
6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 2 SCREW IN PLACE OF F/N 17 SCREW.
9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

0.5304

5	5	5	78	601.3875	SCREW	MS27039-1-16			
1	1	1	77	646.9410	SHIM	MS1149H03P			
		4	76	601.2764	WASHER	MS27039-0813			
		2	75	601.2973	LOCKNUT	MS21042-3			
		2	74	601.2988	SCREW	ANS1648			
		2	73	601.2943	LOCKNUT	MS21049-1			
		2	72	601.3128	NUT	NAS1149D043P			
		2	71	601.3209	LOCKNUT	ANAC7A			
		4	70	601.2638	WASHER	ANAC6A-34P			
		2	69	601.2669	BOLT	ANAC6A-5A			
		2	68	601.3119	GLEVIS				
		2	67	601.3121	EYE BOLT				
		2	66	650.9201	EYE BRACKET ASSY				
REF	REF	REF	65	647.5701	GPS MOUNT KIT				
		2	64	601.3151	WASHER	MS246PMS53			
		2	63	601.2911	SCREW	MS27039-1-16			
		24	62	601.2637	SCREW	ANS-12A			
2		2	61	601.2763	BOLT				
		1	60	644.3913	SHIM				
		4	59	646.3912	SHIM				
		1	58	646.3911	SHIM				
		4	57	646.3910	SHIM				
		5	56	600.1013	PRIMER				
	8 FT	8 FT	55	600.0129	VHB TAPE				
	1	1	54	600.1012	SEALANT	PP-1025 CLASS B			
	1	1	53	600.0991	MAGNABOND 639B PART B				
	1	1	52	600.0990	MAGNABOND 639B PART A				
6	10	10	51	601.2826	BOLT	ANS-11A			
		2	50	646.3814	WIPER BRACKET				
		2	49	601.2910	SCREW	MS27039-1-16			
	2	2	48	401.1365	SCREW	MS27039-1-10			
	2	2	47	646.3719	DOUBLER				
		2	46	646.3718	CUSTOM WASHER				
	1	1	45	646.3717	DOUBLER				
	22	2	44	601.1948	SCREW	MS27039-1-19			
	2	2	43	601.1952	SCREW	MS27039-1-06			
	4	4	42	601.1956	SCREW	MS27039-1-21			
CODE	CODE	CODE	CODE	CODE	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECHS 02779, 02835, 02779 & 02745	02/08/2010	P. BRAVO
B	INCORPORATED ECHS 03044, 03079 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECH 03058	09/06/2015	P. BRAVO

				2		2	41	601.2829	SCREW	MS2469A55A	
				2		2	40	601.2831	RIVET	MS20426AD5-7	
				1		1	39	646.3716	GAUGE BRACKET		
				6		6	38	601.1953	SCREW	MS27039-1/2	
			2			2	37	646.3715	STRUT DOUBLER		
		2		2		2	36	601.2824	BOLT	AN3-6A	
12		36				36	35	601.2277	RIVET	CCP24MS309	
6		18				18	34	600.0795	NUTPLATE	MS27047-3	
3		3				3	33	601.2565	RIVET	MS20470AD5-7	
1		1				1	32	646.3813	STRUT BRACKET		
4		4				4	31	601.2822	BOLT	AN3-3A	
2		2				2	30	646.3812	GUSSET BRACKET		
8		8				8	29	601.2564	RIVET	MS20470AD5-6	
1		1				1	28	646.3714	GUSSET		
			1			1	27	646.3610	FILLER		
			3			3	26	601.2830	SCREW	MS2469A55B	
			2			2	25	601.2825	BOLT	AN3-6A	
			1			1	24	646.3811	RADIUS BLOCK		
			1			1	23	646.3712	CLIP		
			1			1	22	646.3711	CLIP		
8		8				8	21	601.2832	RIVET	MS20470AD5-6A	
14		14				14	20	601.2020	RIVET	CR3213-5-3	
4		6	4	6		10	19	601.2823	BOLT	AH0-4A	
		1		1		1	18	601.2827	BOLT	AN3-13A	
		5		5		5	17	601.2912	SCREW	MS2469A551	
1			1			1	16	646.3713	GUSSET		
1			1			1	15	646.3210	SUPPORT		
			1			1	14	646.3710	DOUBLER		
			1			1	13	646.3110	CHANNEL		
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042L3		
16	32	18	120	16	144	11	601.1607	WASHER	NAS11490303P		
					1	10	646.3410	LH WIPER DEFLECTOR			
					1	9	646.3411	RH WIPER DEFLECTOR			
				2	2	8	647.7703	STRUT ASSY			
				2	2	7	647.0112	STRUT BRACKET			
		1		1	1	6	646.3511	STRUT			
		1		1	1	5	646.3510	STRUT			
2		2			2	4	646.3810	BRACKET			
			1		1	3	646.2910	DEFLECTOR			
		1		1	1	2	646.3001	LOWER CUTTER ASSY			
			1		1	1	646.3301	UPPER CUTTER ASSY			
X							646.4006	LOWER CUTTER FIXED PROVISIONS			
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS			
		X					646.4004	FIXED PROVISIONS KIT			
			X				646.4003	CABLE CUTTER AS W/OUT TRD PROVISIONS			
				X			646.4002	ASS30 WIPER DEFLECTOR KIT			
					X		646.4001	ASS300 CABLE CUTTERS KIT			
.4004	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.	

QTY		PARTS LIST			
NEXT ASSY (S)	ORIGINAL DATE INVOICE 118 05-27-08 DRAWN BY: P. BRAYO CHECKED BY: P. BRAYO REVISION APPROVAL: P. BRAYO QUALITY CONTROL (SEE INSTRUCTIONS)		 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300 AFICAL INDUSTRIES, INC. (DOD DART AIRCRAFT)		AS350 CABLE CUTTERS KIT
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2" PLACE DECIMALS ±.000 3" PLACE DECIMALS ±.005 4" AND LARGER ±.005				
	1-21 B		MFG CODE COMB 07M16E	QWID NO. 646.4000	REV C
			SCALE NONE	SHEET 1 OF 5	